

CLIMATOLOGICAL DATA FOR AUGUST, 1912.

DISTRICT NO. 1, NORTH ATLANTIC STATES.

WILFORD M. WILSON, District Editor.

GENERAL SUMMARY.

The number of storm areas that passed over or near the district was unusually large, making the weather to a remarkable extent assume characteristics of early spring. Showers occurred over the northern portions with a frequency almost unknown in August, the skies were rarely free from clouds, and the average temperature was the lowest for August since 1903 or earlier. In some sections this was the coolest August on record. In New Jersey and the States south of Pennsylvania the low temperature was not associated with wet weather, as in the rest of the district, and, while in the northern States rainfall came so frequently and in such large amounts that unfavorable conditions resulted, there was such a deficiency in parts of New Jersey and Virginia that severe drought was experienced. The remarkable irregularity of the occurrence of precipitation may be seen from the statement that appreciable amounts of rainfall occurred on 22 days at Addison, N. Y., and on only 3 days at two stations in West Virginia.

The following table exhibits the leading features of meteorological interest over the various sections of the district:

States or parts of States within District No. 1.	Temperature.			Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.	
New England.....	63.3	-2.5	92	29	4.03	+0.12	11.28	1.94	10 11
New York.....	65.0	-2.2	94	30	4.10	+ .11	8.98	2.04	12
Pennsylvania.....	67.4	-2.5	93	36	4.54	+ .47	9.65	1.68	13 10
New Jersey.....	70.0	-2.0	95	35	3.42	-1.30	7.62	1.19	10 12
Maryland, Delaware, and District of Columbia.....	72.3	-1.3	99	41	2.60	-1.86	6.26	1.02	9 13
West Virginia.....	67.8	-2.7	94	35	1.79	-2.13	4.43	.25	7 7
Virginia.....	72.5	-1.3	98	40	1.97	-2.17	4.54	.80	7 10

TEMPERATURE.

The average temperature for the month was 1° to 3° below normal at more than three-fourths of the stations in the district, but, owing to the peculiarities in the distribution of rainfall and sunshine, a few stations experienced temperatures that averaged above the August normal.

A period of cool weather that began about the 30th of July continued through the first nine days of August. This period was characterized mainly by cool nights and moderate day temperatures. The highest temperatures of the month with few exceptions came in a warm spell of about five days that broke up on the 15th. The tem-

perature did not reach 90° at any of the stations in Maine and Vermont and at only a few stations in the other New England States or New York. From the 16th to the 26th the weather was quite changeable, with several alternating periods of temperature above and below the normal. The last four days of the month formed an exceptionally cool period. At several stations in central New York the mean temperature for the 31st was below 50°, and the day, with little doubt, may be called the coldest August day on record in that section. The highest temperature recorded in the district was 99° at Cambridge, Md., on the 19th, and the lowest was 29° at Norfolk, Mass., on the 31st. The mean temperatures ranged from 76.6° at Solomons, Md., to 57.3° at Morehouseville, N. Y.

PRECIPITATION.

In New England, New York, and Pennsylvania the precipitation was considerably above normal, but in the other States of the district there was a deficiency of 1 to 2 inches or more. The average rainfall was only 1.79 inches in West Virginia, while in Pennsylvania it was 4.54 inches. The distribution of the precipitation was remarkably uneven in all sections, and stations comparatively near each other received amounts differing by several inches. The greatest amount reported at any station was 11.28 inches, at Patten, Me., and the least was 0.25 inch, at Burlington, W. Va. Rainfall at excessive rates occurred at numerous stations in connection with the storm that passed over the district from the 9th to the 11th, and at a few stations on the 19th and 22d. Heavy rains with numerous instances of more than 1 inch in 24 hours occurred over extensive areas in the New England States on the 1st, and as far south as Pennsylvania and New Jersey in connection with the storms central over the district, on the 10th and 18th. On other dates the rainfall was generally light and irregularly distributed. In the southern States of the district the precipitation was almost wholly in the form of local showers and thunderstorms, none of the heavy general rains extending south of Pennsylvania. The total rainfall in Virginia, West Virginia, and the southwestern part of New Jersey averaged less than 2 inches, and these sections experienced drought during practically the entire month, the precipitation for June and July having been much less than the normal.

MISCELLANEOUS.

All the principal rivers remained at moderate stages throughout the month, but local inundations must have occurred as a result of heavy showers along many of the smaller streams. The average number of hours of sunshine for the month, according to the records of 12 repre-

sentative stations was 249, which is less than the average for any month since April. At Boston, New York, and Baltimore the total sunshine exceeded 300 hours, but at Binghamton it was only 164 hours. The percentage of the possible sunshine averaged 58, or less than the average for either June or July this year. The average number of clear days for the district was 11, partly cloudy days 14, and cloudy days 6.

THE AVALON TORNADO OF AUGUST 21, 1912.

By JAMES H. KIMBALL, Observer.

Information comes from the Avalon neighborhood in Northumberland County, Va., of a tornado that swept over that section between 3 and 4 p. m. of Wednesday, August 21, 1912. As seen from Avalon the storm first appeared to the north, thence passing east of the village and on toward the southeast. Eye witnesses state that

it took the form and appearance of a funnel-shaped whirl of smoke, and as it moved along its northwest-southeast course, the pendant portion at times reached nearly to the ground and again lifted above the tops of the trees. The storm caused a roaring sound that was heard for miles around.

Investigation of the track of the disturbance indicates that damage was done to property along a strip of country one-fourth mile wide in places, but within the area of greatest destruction the path was much narrower. Trees and small buildings were blown down and two persons were injured by the tornado. The trees that fell on the north side of the path lie toward the south or southeast, while those on the south side fell toward the west.

The disturbance occurred during a period of hot, dry weather, and appears to have had some slight connection with an area of low pressure that passed across the eastern Canadian Provinces on the same day.

TABLE 1.—Climatological data for August, 1912. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
			Mean.			Departure from the normal.			Highest.			Lowest.								
			Highest.	Date.	Lowest.	Date.	Greatest in 24 hours.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.					
<i>Maine.</i>																				
Bar Harbor.....	Hancock.....	20	26	61.4	-3.1	82	13†	41	17†	30	3.93	+ 0.91	1.70	0	8	12	15	4	nw.	
Cornish.....	.....	778	57	64.4	-1.8	89	13†	36	31	35	3.54	- 0.80	0.86	0	11	6	16	9	n.
Eastport.....	Washington.....	53	49	58.8	-0.9	74	25	45	31	22	3.76	+ 0.50	0.81	0	14	3	17	11	s.	
Fairfield.....	Somerset.....	90	27	62.2	-3.2	86	16	42	31	34	5.27	+ 2.22	1.55	0	7	7	9	15	....
Farmington.....	Franklin.....	450	15	60.3	-4.4	83	14	38	18†	31	5.80	+ 2.30	1.22	0	19	3	14	14	nw.	
Gardiner.....	Kennebec.....	103	20	62.6	-5.8	85	13†	38	31	32	2.99	- 0.45	1.15	0	14	19	3	9	sw.	
Greenville.....	Piscataquis.....	1,140	8	58.5	-	83	14	40	17†	27	5.38	+ 2.12	1.12	0	17	7	12	12	....
Houlton.....	Aroostook.....	362	10	60.9	-	85	19	35	31	30	8.40	+ 5.84	2.00	0	10	7	12	12	s.	
Lewiston.....	Androscoggin.....	185	38	63.6	-3.5	86	25	44	31	25	2.96	- 0.30	0.78	0	11	9	11	11	nw.	
Madison.....	Somerset.....	257	9	61.8	-	85	15	40	18	33	6.96	+ 3.24	2.18	0	12	18	2	11	nw.	
Millinocket.....	Penobscot.....	386	8	61.8	-	89	14	40	26	31	6.94	+ 3.81	1.26	0	16	14	5	11	nw.	
North Bridgton.....	Cumberland.....	450	19	64.2	-3.0	88	13	43	17†	34	3.55	+ 0.27	0.90	0	10	8	17	6	se.	
Orono.....	Penobscot.....	129	43	62.4	-3.1	84	14†	36	31	39	4.69	+ 1.28	1.15	0	13	2	21	6	w.	
Patten.....	do.....	550	10	59.0	-	89	13	35	26	35	11.28	-	2.00	0	7	15	3	10	sw.	
Portland.....	Cumberland.....	99	41	62.8	-3.4	88	25	47	31	28	2.26	- 1.31	0.63	0	13	10	10	11	s.	
Presque Isle.....	Aroostook.....	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S. L. Merriman.		
Rumford Falls.....	Oxford.....	505	19	62.1	-3.6	83	14	43	31	28	4.89	+ 1.81	1.07	0	14	15	7	9	nw.	
Winslow.....	Kennebec.....	90	17	63.4	-2.3	87	14	41	31	34	4.80	+ 1.81	2.00	0	10	8	13	10	w.	
<i>New Hampshire.</i>																				
Alstead Center.....	Cheshire.....	1,120	8	61.8	-	80	13†	38	31	28	5.19	-	3.21	0	12	17	6	8	sw.	
Benton.....	Grafton.....	3	59.4	-	-	81	13	36	5	30	5.26	-	1.65	0	10	6	10	15	nw.	
Bethlehem.....	do.....	1,470	20	59.6	-4.6	81	14	36	31	30	5.92	+ 2.00	1.19	0	16	12	13	6	sw.	
Concord.....	Merrimack.....	350	52	64.5	-2.1	82	25	38	31	30	3.39	- 0.35	0.82	0	13	9	16	7	nw.	
Durham.....	Stafford.....	88	17	63.5	-4.5	89	25	42	17†	32	2.95	- 0.13	0.73	0	7	15	7	9	se.	
Franklin.....	Merrimack.....	440	13	64.2	-1.4	87	25	37	31	34	3.06	- 0.28	0.75	0	10	8	17	6	w.	
Grafton.....	Grafton.....	803	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P. R. Kimball.		
Hanover.....	do.....	603	78	63.2	-2.9	86	14	38	31	33	3.52	+ 0.13	0.94	0	13	6	14	11	sw.	
Keene.....	Cheshire.....	506	27	63.7	-2.5	85	13†	33	31	36	4.10	- 0.08	1.03	0	11	10	18	3	nw.	
Nashua.....	Hillsboro.....	125	27	67.1	-1.5	90	25	39	31	31	2.34	- 1.54	0.70	0	7	-	-	-	sw.	
Newton.....	Rockingham.....	24	24	64.8	-2.2	87	25	37	31	34	2.51	- 0.64	0.75	0	7	7	22	2	w.	
Plymouth.....	Grafton.....	500	24	62.0	-3.7	83	13†	36	31	31	5.38	+ 0.87	2.19	0	10	16	1	14	w.	
<i>Vermont.</i>																				
Bloomfield.....	Essex.....	5	59.8	-	-	82	13†	36	31	33	5.16	-	1.25	0	19	8	16	7	s.	
Cavendish.....	Windsor.....	910	9	62.8	-	84	13†	36	30	37	3.62	-	0.79	0	12	10	20	1	w.	
Chelsea.....	Orange.....	840	17	60.8	-3.1	83	14	33	31	34	3.84	+ 0.57	0.84	0	9	10	18	7	n.	
Manchester.....	Bennington.....	980	13	61.9	-	82	11	37	31	29	3.79	-	0.94	0	9	2	22	6	sw.	
Somerset.....	Windham.....	2,096	19	58.5	-	80	11	31	31	35	4.18	-	1.18	0	14	8	14	9	sw.	
St. Johnsbury.....	Caledonia.....	711	19	62.0	-2.4	55	11†	39	31	36	4.80	+ 0.97	0.98	0	17	4	21	6	se.	
Woodstock.....	Windsor.....	700	20	60.8	-4.5	83	14†	37	31	32	3.13	- 0.41	0.84	0	7	2	5	24	....
<i>Massachusetts.</i>																				
Amherst.....	Hampshire.....	222	23	66.7	-1.9	86	25	42	13†	25	3.05	- 1.02	0.96	0	11	10	15	6	nw.	
Blue Hill.....	Norfolk.....	640	28	65.5	-	86	25	49	31	24	1.94	- 2.09	0.66	0	8	7	17	7	nw.	
Boston.....	Suffolk.....	124	42	69.0	+ 0.1	90	25	49	31	28	2.24	- 2.04	0.53	0	8	26	0	5	met. water board.	
Chestnut Hill.....	do.....	124	32	67.8	-1.8	89	13	45	31	28	2.24	- 2.04	0.53	0	8	21	1	9	do.	
Clinton.....	Worcester.....	370	16	65.2	-	83	14†	43	30	31	3.63	-	1.30	0	9	21	1	9	s.	
Concord.....	Middlesex.....	139	22	65.0	-2.3	88	25	36	36	31	3.37	-	0.28	0.87	0	8	6	17	8	sw.
Fall River.....	Bristol.....	200	46	68.1	-2.1	85	15	46	31	20	4.60	+ 0.47	1.10	0	9	4	23	4	w.	
Fitchburg.....	Worcester.....	550	29	66.2	-2.1	88	25	43	31	29	2.86	- 1.94	1.28	0	5	14	3	14	sw.	
Framingham.....	Middlesex.....	160	32	67.6	-1.2	88	13	40	31	29	2.92	- 1.15	0.88	0	7	19	8	4	sw.	
Hyannis**.....	Barnstable.....	31	21	67.4	-3.9	83	15	48	30	25	5.45	+ 2.22	1.95	0	8	17	10	4	sw.	
Lawrence.....	Essex.....	51	28	66.7	-2.9	88	25	43	31	28	2.66	- 1.36	0.57	0	8	6	23	2	sw.	
Lowell.....	Middlesex.....	100	27	68.2	-1.2	88	25	42	31	28	2.23	- 2.03	0.61	0	6	6	6	sw.		
Middleboro.....	Plymouth.....	53	26	64.4	-3.1	86	15	35	31	32	3.09	- 0.55	1.01	0	8	2	19	10	sw.	
Nantucket.....	Nantucket.....	15	26	67.0	-1.0	82	27	53	31	21	2.87	- 0.19	1.44	0	7	11	14	6	sw.	
New Bedford.....	Bristol.....	88	100	67.4	-0.9	85	13†	44	31	26	7.35	+ 3.09	2.33	0	7	22	4	5	sw.	
Norfolk.....	do.....	244	9	63.0	-	89	14	31	29	31	4.38	-	0.55	0	7	19	8	4	w.	
Plymouth.....	Plymouth.....	27	65.3b	-	-	82b	14	43b	31	31	3.78	-	1.05	0	8	14	7	10	sw.	
Provincetown.....	Barnstable.....	40	25	66.8	-2.4	81	13	52	30	26	3.06	- 0.12	1.07	0	5	20	0	11	sw.	
Rockport.....	Essex.....	25	10	64.6	-	86	25	49	31	25	2.55	-	0.70	0	6	13	10	8	sw.	
Rutland.....	Worcester.....	1,160	10	64.2	-	84	19	39	34	33	3.33	-	1.55	0	8	16	11	4	sw.	
Turners Falls.....	Franklin.....	200	21	68.3	-0.7	86	25	43	17	30	3.64	+ 0.54	1.10	0	10	-	-	-	sw.	
Westboro.....	Worcester.....	298	38	68.7	-1.0	89	13	40	31	34	2.89	- 1.24	0.80	0	7	-	-	-	sw.	
Williamstown.....	Berkshire.....	711	31	64.1	-1.2	83	14	38	31	30	3.64	- 0.52	0.94	0	8	9	14	8	nw.	
Worcester.....	do.....	518	20	67.0	-1.0	87	14	45	30	25	3.88	+ 0.46	1.22	0	10	12	11	8	nw.	
<i>Rhode Island.</i>																				
Block Island.....	Newport.....	26	32	67.0	-1.7	81	15	51	31	16	3.18	- 0.30	0.90	0	8	11	12	8	sw.	
Bristol.....	do.....	53	26	67.4	-1.9	81	16													

TABLE 1.—Climatological data for August, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Greatest daily range.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>New York.</i>																					
Addison.....	Steuben.....	1,000	22	65.9	- 2.1	90	25	42	17	34	5.58	+ 2.31	0.84	0	22	7	14	10	sw.	Dr. H. R. Ainsworth.	
Albany.....	Albany.....	97	91	68.0	- 1.5	88	25	43	31	26	3.00	- 0.96	0.84	0	11	9	19	3	s.	U. S. Weather Bureau.	
Alfred.....	Allegany.....	1,976	17	61.0	- 4.5	83	25	38	16	32	5.16	+ 1.49	1.20	0	15	16	6	9	w.	Prof. F. S. Place.	
Amsterdam.....	Montgomery.....	277	8	64.8	- 1.2	88	13	37	31	31	2.50	-	0.77	0	13	16	6	9	sw.	Emery Elwood.	
Athens.....	Greene.....	90	10	67.4	-	88	13†	42	31	28	5.85	+ 1.75	1.61	0	15	6	20	5	sw.	E. C. Brooks.	
Ballston Lake.....	Saratoga.....	400	8	64.7	-	85	13†	36	31	33	3.86	-	1.07	0	11	12	12	7	w.	George R. Schaubert.	
Bedford.....	Westchester.....	450	21	72.3	+ 2.1	94	15†	42	31	40	3.17	- 1.86	2.16	0	8	17	12	2	sw.	Dr. L. Rosenberg.	
Beersley.....	Delaware.....	1,214	0	62.4	-	85	13	34	30	36	5.10	-	1.06	0	14	12	18	9	w.	John Q. Barlow.	
Binghamton.....	Broome.....	875	21	64.0	- 3.5	87	25	40	31	32	7.72	+ 4.37	1.92	0	19	0	11	20	w.	U. S. Weather Bureau.	
Boudville.....	Madison.....	1,350	15	62.0	- 3.2	83	13†	37	31	29	4.65	+ 1.08	0.82	0	15	2	14	15	sw.	L. W. Griswold.	
Boyd's Corners.....	Putnam.....	560	30	65.0	-	85	13†	42	31	29	5.02	+ 0.06	0.88	0	11	7	14	10	sw.	Thomas Manning.	
Carmel.....	do.....	500	20	67.1	- 2.5	88	26	44	31	33	4.90	- 0.39	2.41	0	11	17	6	8	nw.	Do.	
Chatham.....	Columbia.....	470	11	66.4	- 0.9	87	13	38	30	30	3.32	- 0.93	0.92	0	13	10	13	8	s.	Morton R. Tank.	
Cooperstown.....	Otsego.....	1,250	58	62.2	- 3.2	82	14	36	31	30	6.09	+ 1.96	2.25	0	14	12	14	5	s.	Miss Elizabeth Keese.	
Corinth.....	Saratoga.....	542	10	64.4	-	86	13	38	31	32	5.31	+ 1.51	1.58	0	6	7	18	6	s.	A. M. Hollister.	
Cortland.....	Cortland.....	1,129	50	64.4	- 0.6	86	13	38	31	32	5.31	+ 1.51	1.30	0	6	7	18	6	s.	F. G. Baker.	
Cutchogue.....	Suffolk.....	32	13	68.7	- 1.7	86	14	50	30	23	3.23	- 0.44	1.36	0	7	18	9	4	sw.	William A. Fleet.	
De Ruyter.....	Madison.....	1,300	9	60.8	- 3.2	81	26	35	31	34	4.77	+ 1.17	1.15	0	14	5	7	19	s.	B. D. Crandall.	
Elmira.....	Chemung.....	863	29	65.6	- 3.5	88	25	44	30	26	4.37	+ 1.13	0.93	0	16	5	10	16	ne.	Thurber A. Brown.	
Ephratah.....	Fulton.....	692	0	64.0	-	85	13	32	31	26	3.54	-	1.60	0	13	7	14	10	w.	Victor Gennett.	
Glens Falls.....	Warren.....	340	21	65.6	- 2.1	88	13	41	31	31	4.31	- 0.46	0.88	0	14	3	8	20	sw.	Prof. C. L. Williams.	
Gloversville.....	Fulton.....	850	20	63.1	- 3.1	84	13†	35	31	31	3.68	- 0.37	1.20	0	12	8	18	5	w.	W. L. McLean.	
Greenfield Center.....	Saratoga.....	314	14	63.6	- 3.6	87	13	37	31	30	3.42	- 0.75	1.05	0	10	11	16	4	nw.	S. E. Darow.	
Greenwich.....	Washington.....	425	15	66.8	- 0.9	88	14	40	30	35	3.03	- 0.64	0.70	0	9	17	12	2	se.	Homer J. Whitcomb.	
Griffin Corners.....	Delaware.....	2,260	12	61.8	- 1.1	85	13	32	31	37	4.54	+ 0.52	1.20	0	12	17	5	9	w.	Harold O. Judd.	
Haskinsville.....	Steuben.....	17	.....	.....	.....	.....	.....	.....	.....	.....	4.05	+ 0.75	0.80	0	16	7	14	10	w.	W. G. Collins.
Homer.....	Cortland.....	1,096	21	2.81	-	0.80	0	11
Hoosick Falls.....	Rensselaer.....	410	10	.....	.....	.....	.....	.....	.....	.....	3.88	+ 0.41	1.02	0	11	9	9	13	w.	Charles C. Mortimer.
Indian Lake.....	Hamilton.....	1,705	13	58.8	- 3.4	82	13	30	31	41	3.88	+ 0.41	1.02	0	11	9	9	13	w.	Sanford L. Cluett.	
Jeffersonville.....	Sullivan.....	1,240	9	63.6	-	87	13	35	31	37	5.05	-	1.91	0	12	17	11	3	w.	Lester Severe, jr.	
Liberty.....	do.....	2,300	30	61.4	- 3.3	82	14†	38	30	34	8.98	+ 4.69	2.55	0	14	12	4	15	nw.	Charles Wilfert, jr.	
Little Falls.....	Herkimer.....	924	14	63.4	- 3.2	87	13	38	30†	36	2.04	- 1.69	0.63	0	9	14	14	3	w.	Dr. H. M. King.	
Mohonk Lake.....	Ulster.....	1,245	16	64.8	- 2.2	84	14	44	31	19	3.88	- 1.18	1.19	0	12	18	6	7	n.	O. J. Dempster.	
Morehouseville.....	Hamilton.....	1,697	4	57.3	-	78	11	31	30	33	3.13	-	0.90	0	19	6	17	7	w.	Theo. C. Remonda.	
Morrisville.....	Madison.....	1,325	0	60.4	-	88	13	39	17	31	4.61	-	1.30	0	12	11	5	15	dw.	Prof. I. M. Charlton.	
Mount Hope.....	Westchester.....	200	15	69.4	- 0.6	88	13b	46	31	36	3.52	- 1.79	1.14	0	6	10	17	4	sw.	W. A. Cornelius.	
Newark Valley.....	Tioga.....	825	25	5.89	+ 1.54	1.26	0	13
New Berlin.....	Chenango.....	1,000	5	60.8	- 2.5	84	14	32	30†	38	3.74	-	1.96	0	9
New Lisbon.....	Otsego.....	1,234	22	60.8	-	84	14	32	30†	38	4.95	+ 0.32	1.65	0	16	6	10	15	s.	G. A. Yates.	
New York City.....	New York.....	314	87	70.7	- 1.5	89	26	53	31	19	2.77	- 1.76	1.17	0	12	4	20	7	nw.	U. S. Weather Bureau.	
North Creek.....	Warren.....	1,002	4	61.4	-	83	14	35	31	29	3.33	-	0.82	0	10	6	13	12	nw.	W. G. Kenwell.	
Northville.....	Fulton.....	742	10	3.80	-	1.50	0	8
Oneonta.....	Otsego.....	1,112	18	64.5	- 3.3	86	12	38	31	31	5.05	+ 0.13	2.40	0	12	7	9	15	sw.	P. C. Pickard.	
Oxford.....	Chenango.....	916	47	63.4	- 2.4	83	13†	39	30†	30	4.11	-	0.00	1.17	0	11	6	17	8	sw.	H. W. Lee.
Port Jervis.....	Orange.....	470	28	67.4	- 1.8	91	25	39	31	34	4.87	+ 0.45	1.61	0	17	8	19	4	nw.	J. P. Davis.	
Roslyn.....	Nassau.....	215	0	70.1	-	88	14	46	31	30	4.76	-	1.67	0	10	23	5	3	w.	W. H. Nearpass.	
Salisbury.....	Herkimer.....	1,526	15	60.4	- 5.0	82	13	34	31	34	2.74	- 2.39	0.93	0	10	18	3	3	w.	C. H. Hechler.	
Scarsdale.....	Westchester.....	200	8	68.3	-	90	14	44	31	27	4.16	-	2.30	0	8	22	3	6	sw.	Joseph Ryan.	
Setauket.....	Suffolk.....	40	27	70.2	- 0.3	88	14	53	6	24	3.02	-	1.30	0	9	18	7	6	w.	C. H. Wilmarth.	
Sherburne.....	Chenango.....	5	3.97	-	0.73	0	12
Southampton.....	Suffolk.....	36	11	68.0	- 1.1	84	15	46	31	24	2.93	-	0.99	1.64	0	8	19	10	2	sw.	W. L. Jagger.
Southeast Reservoir.....	Putnam.....	310	7	.....	.....	.....	.....	.....	.....	.....	4.23	- 0.96	1.05	0	14	13	7	11	sw.	Thomas Manning.
South Edmeston.....	Otsego.....	1,300	0	62.0	-	84	11†	35	30†	34	3.62	-	1.05	0	14	13	7	11	s.	F. H. Bilderbeck.	
Spier Falls.....	Saratoga.....	400	11	66.3	+ 0.3	85	25	38	31	30	2.90	- 0.06	0.93	0	9	5	18	8	s.	George E. Fifield.	
Trenton Falls.....	Oneida.....	751	9	.....	.....	.....	.....	.....	.....	.....	4.21	-	0.65	0	14	14	14	14	sw.	C. W. Young.
Tribe Hill.....	Montgomery.....	527	46	2.78	-	0.86	0.85	0	11
Utica.....	Oneida.....	537	46	1.50	-	0.85	0	11
Wadding River.....	Suffolk.....	112	6	70.2	-	92	14	49	6	30	2.56	-	1.50	0	8	26	2	3	sw.	W. E. Young.	
Wappingers Falls.....	Dutchess.....	110	22	67.5	- 2.4	87	14	44	31	29	4.14	-	0.57	1.10	0	12	12	17	2	nw.	H. B. Fullerton.
Warwick.....	Orange.....	538	18	.....	.....	.....	.....	.....	.....	.....	5.19	+ 0.85	1.92	0	12	18	5	8	w.	H. C. Townsend.
Waverly.....	Tioga.....	824	30	64.9	- 2.6	89	25	38	28	35	6.14	+ 2.71	1.84	0	15	0	14	17	nw.	John W. Sly.	
West Berne.....	Albany.....	946	13	63.4	- 3.6	86	14	31	31	41	3.34	- 0.52	1.21	0	7	4	15	12	w.	J. F. Shoemaker.	
West Point.....	Orange.....	167	63	69.6	- 2.6	86															

TABLE 1.—Climatological data for August, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.			Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.			
					Highest.	Date.	Lowest.													
Pennsylvania—Contd.																				
State College.....	Center.....	1,191	24	65.9	-2.8	86	19	44	29	35	3.92	-0.05	0.62	0	15	w.	Prof. Wm. Frear.			
Towanda.....	Bradford.....	754	17	64.6	-3.9	87	25	41	28	32	4.12	+0.52	0.39	0	16	s.	Hiram E. Bull, C. E.			
Wellsboro.....	Tioga.....	1,327	35	64.6	-1.0	88	25	39	28†	37	4.53	+1.03	1.17	0	19	w.	O. L. White.			
West Chester.....	Chester.....	455	38	70.9	-1.0	89	13	23	43	73	4.73	+0.20	2.20	0	13	g.	J. C. Green, D. D. S.			
Williamsport.....	Lycoming.....	530	22	68.2	-2.0	86	19	47	28†	35	9.65	+5.59	3.70	0	15	w.	Henry H. Guise.			
New Jersey.																				
Atlantic City.....	Atlantic.....	16	39	71.6	-1.0	90	14	53	28	22	3.21	-1.09	1.96	0	8	s.	U. S. Weather Bureau.			
Bayonne.....	Hudson.....	50	22	70.9	-2.0	92	26	50	30†	24	3.52	-1.59	1.03	0	14	s.	Erskine R. Eadie.			
Belvidere.....	Warren.....	289	22	68.4	-2.4	88	14†	43	31	51	5.50	+0.54	2.15	0	11	sw.	Samuel J. Hixson.			
Bergen Point.....	Hudson.....	37	15	70.6	-1.1	92	26	50	31	27	5.72	-1.34	0.82	0	9	w.	Wm. H. Mitchell, M. D.			
Boonton.....	Morris.....	230	22	73.2	-1.9	95	13	47	28	29	6.31	+0.92	1.45	0	14	sw.	Foster Peer.			
Bridgeton.....	Cumberland.....	30	31	73.2	-1.9	95	13	47	28	29	1.28	-3.46	1.10	0	4	w.	Henry A. Jordan.			
Burlington.....	Burlington.....	12	26	70.9	-2.0	90	26	50	30†	24	3.06	-2.55	1.50	0	12	sw.	D. S. B. McCoy.			
Cape May City.....	Cape May.....	17	34	72.4	-1.0	90	14	53	31	22	1.93	-2.33	0.84	0	9	s.	U. S. Weather Bureau.			
Charlotteburg.....	Passaic.....	719	20	66.7	-1.0	90a	25	36	31	36†a	7.62	+2.37	3.36	0	9	sw.	George S. Briggs.			
Chatham.....	Morris.....	234	10	70.7	-2.8	90	13	47	28	27	4.30	-0.92	1.05	0	11	nw.	M. A. Butler.			
Clayton.....	Gloucester.....	126	19	70.7	-2.8	90	13	47	28	27	1.99	-3.16	0.47	0	8	w.	William T. Farley.			
Culvers Lake.....	Sussex.....	848	11	66.4	-2.8	87	14	40a	31	30†a	5.94	+0.94	3.04	0	11	sw.	Brice E. Riker.			
Dover.....	Morris.....	600	28	69.8	-3.7	92	26	44	31	30	2.70	-1.84	1.00	0	11	w.	William C. Harris.			
Elizabeth.....	Union.....	45	33	69.8	-2.2	90	26	44	31	30	5.23	+0.82	1.42	0	16	sw.	L. B. Bonnett.			
Flemington.....	Hunterdon.....	140	24	69.6	-2.2	90	26	51	31	24	2.35	-2.24	1.04	0	9	nw.	Hiram E. Deats.			
Haddonfield.....	Camden.....	75	25	69.9	-3.0	90	13	48	28	27	1.72	-2.96	0.71	0	7	sw.	Charles F. Richardson.			
Hammonston.....	Atlantic.....	103	14	70.7	-1.3	94	13	42	31	33	3.11	-1.66	1.23	0	12	sw.	Orville Bassett.			
Hightstown.....	Mercer.....	119	20	70.6	-1.3	94	13	42	31	33	3.90	-1.21	1.45	0	10	sw.	Ernst Wenger.			
Highwood.....	Bergen.....	90	25	67.9	-3.3	90	13†	40	31	32	2.82	-2.25	1.77	0	10	sw.	Charles J. Bates.			
Imlaytown.....	Monmouth.....	107	24	71.2	-1.9	95	14	43	31	30	2.59	-2.27	1.20	0	11	sw.	Dr. Fred C. Price.			
Indian Mills.....	Burlington.....	76	23	70.2	-2.9	94	13	43	30	36	3.63	-1.54	0.90	0	8	sw.	James Armstrong.			
Jersey City.....	Hudson.....	10	14	72.4	-0.9	92	26	51	31	24	2.59	-1.76	1.24	0	9	nw.	Samuel K. Pearson, Jr.			
Lakewood.....	Ocean.....	54	10	70.0	-2.1	90	26	48	28†	26†	1.90	-2.48	0.68	0	5	sw.	Ralph Robertson.			
Lambertville.....	Hunterdon.....	95	25	70.3	-2.1	90	26	45	31	27	3.00	-1.76	0.60	0	12	sw.	William R. Bowne.			
Layton.....	Sussex.....	550	13	65.8	-2.6	90	14	35a	31	37a	4.13	+0.49	1.35	0	11	sw.	Warren C. Hursb.			
Little Falls.....	Passaic.....	175	10	70.1	-1.3	94	14	48	28†	29	3.04	-1.21	1.45	0	6	se.	A. Sweetman.			
Long Branch.....	Monmouth.....	30	5	70.1	-1.3	94	14	48	28†	29	5.42	+0.78	2.04	0	12	sw.	William D. Martin, Jr.			
Mahwah.....	Bergen.....	312	10	70.7	-1.3	93	14	40	31	32	1.30	-2.25	1.20	0	9	sw.	Charles L. Barker.			
Moorestown.....	Burlington.....	75	50	69.9	-2.6	89	13	46	28	27	4.34	-0.40	1.20	0	9	sw.	George L. Gillingham.			
Newark.....	Essex.....	159	69	72.3	-0.3	93	13	53	30	26	3.30	-1.94	1.37	0	13	sw.	Prof. William Wiener.			
New Brunswick.....	Middlesex.....	100	59	69.8	-2.6	92	14	45b	31	30†b	3.46	-1.63	0.65	0	11	sw.	George B. Thrasher.			
Newton.....	Sussex.....	678	33	68.0	-1.8	89	14	42	31	30	5.55	+1.14	1.07	0	9	sw.	F. Vernon Losee.			
Northfield.....	Atlantic.....	25	5	70.7	-1.3	93	14	48	28†	29	2.48	-2.08	0.57	0	5	sw.	William L. Flick.			
Paterson.....	Passaic.....	80	41	71.2	-0.8	93	14	47	31	28	4.61	-0.52	1.77	0	12	sw.	Heber A. Probert.			
Phillipsburg.....	Warren.....	303	22	69.0	-2.7	89	26	45	31	30	4.43	-0.27	1.43	0	15	sw.	D. W. Smith.			
Plainfield.....	Union.....	100	26	69.9	-2.2	91	26	46	28†	30	4.09	-0.78	1.35	0	16	sw.	John Neagle.			
Pleasantville.....	Atlantic.....	26	14	70.4	-1.8	91	13	44a	28	30†a	2.88	-1.81	1.56	0	6	sw.	Lincoln Van Gilder.			
Pompton Plains.....	Morris.....	105	10	69.7	-2.2	91	26	43	31	33	3.31	-1.40	0.75	0	10	n.	M. S. Taylor.			
Somerville.....	Somerset.....	60	29	69.7	-2.2	91	26	43	31	33	3.31	-1.40	0.75	0	13	sw.	A. A. Macdonald.			
South Orange.....	Essex.....	200	42	69.2	-1.5	93	19	46	31	31	3.90	-3.49	0.69	0	7	sw.	Dr. Wm. J. Chandler.			
Sussex.....	Sussex.....	442	22	67.0	-2.6	90	14	40b	31	34b	4.24	-0.08	1.28	0	12	nw.	George Dymock.			
Trenton.....	Mercer.....	63	41	72.0	-1.7	94	13†	46	31	30	1.71	-3.84	0.44	0	9	sw.	James L. Bennett.			
Tuckerton.....	Ocean.....	23	19	70.4	-1.8	91	13	44a	28	30†a	2.55	-3.23	1.63	0	7	sw.	Frank R. Austin.			
Vineland.....	Cumberland.....	118	43	72.6	-1.0	94	13	48	30	29	1.19	-3.78	0.84	0	4	w.	Alfred Chalmers.			
Woodbine.....	Cape May.....	43	21	71.8	-0.4	91a	13	46a	28	31a	2.94	-1.36	2.45	0	6	sw.	Prof. O. E. Williams.			
West Virginia.																				
Bayard.....	Grant.....	2,500	10	63.8	-2.1	82	18†	35	5	33	4.43	+0.23	1.07	0	17	s.	Solomon Clark.			
Burlington.....	Mineral.....	875	17	66.6	-4.7	92	25	41	5	47	0.25	-3.41	0.10	0	3	sw.	W. B. Vandiver.			
Franklin.....	Pendleton.....	5																		
Lost City.....	Hardy.....	5																		
Martinsburg.....	Berkeley.....	435	21	71.8	-1.2	94	14	47	5	33	2.10	-1.69	0.77	0	6	sw.	B. D. Hinegardner.			
Moorefield.....	Hardy.....	900	15	70.7	-1.2	94	14	52	28	25	1.87	-2.87	1.13	0	6	sw.	G. W. Van Metre, C. E.			
Romney.....	Hampshire.....	824	16	70.7	-1.2	94	14	52	28	24	1.87	-2.87	1.13	0	6	sw.	John C. Fisher.			
Upper Tract *.....	Pendleton.....	1,230	14	68.6	-2.8	89	31	40	4†	37	0.68	-3.65	0.60	0	3	sw.	John M. Mallow.			
Maryland.																				
Annapolis.....	Anne Arundel.....	45	40	75.8	-0.8	94	20	56	5†	25	1.02	-3.85	0.46	0	4	sw.	U. S. Naval Academy.			
Baltimore.....	Baltimore.....	115	42	74.4	-0.3	92	18	57	5	21	3.25	-0.96	1.29	0	10	sw.	U. S. Weather Bureau			
Cambridge.....	Dorchester.....	24	14	75.4	-0.9	99	19	55	28	30	2.31	-2.23	1.25	0	3	sw.	T. E. Keenan.			
Cheltenham.....	Prince Georges.....	230	12	72.4	-1.1	93	19	50	5†	31	1.41	-3.40	0.42	0	9	sw.	Geo. Hartnell.			
Chestertown.....	Kent.....	80	27	73.0	-0.6	91	13	52	28	25	1.87	-2.87	1.13	0	6	sw.	M. W. Thomas.			
Chewsville.....	Washington.....	530	15	69.8	-2.4	90	18†	43	5	33	3.35	-0.48	1.11	0	12	sw.	D. Paul Oswald.			
Clear Spring.....	do.....	650	15	68.7	-2.9	89	19	49	5†	27	4.60	+0.07	1.04	0	14	sw.	W. W. Frantz.			
Coleman.....	Kent.....	80	14	73.8	-0.4	94	13	54	6	34	2.39	-1.77	0.96	0	8	sw.	J. S. Harris.			
College Park.....	Prince Georges.....	170	22	72.0	-1.4	94	19	46	5†	24	1.15	-2.93	0.41	0	9	sw.	Prof. H. J. Patterson.			
Cumberland.....	Allegany.....	623	38	71.8	-1.3	93	18†	46	5	34	1.35	-1.94	0.39	0						

TABLE 1.—*Climatological data for August, 1912. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, uncorrected.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maryland—Continued.																				
State Sanatorium.....	Frederick.....	1,400	4	68.1	-	88	18	41	28	30	6.26	-	1.95	0	9	7	18	6	se.	Superintendent.
Sudlersville.....	Queen Anne.....	65	13	72.8	- 0.9	95	13	47	28	33	1.67	- 1.65	1.38	0	5	9	19	3	sw.	Henry L. Higman.
Takoma Park.....	Montgomery.....	320	13	72.0	- 1.2	90	19	52	57	29	1.31	- 3.92	0.40	0	7	0	31	0	sw.	L. M. Mooers.
Tanytown.....	Carroll.....	405	4	71.4	- 2.1	93	19	46	57	33	3.52	- 0.50	0.86	0	15	15	14	2	sw.	Curtis H. Reid.
Van Bibber.....	Harford.....	109	15	71.4	- 2.2	91 ^a	14 ^f	45 ^a	28	31 ^a	3.17	- 1.96	1.00	0	9	24 ^a	2 ^a	4 ^a	sw.	W. Benj. Ford.
Westernport.....	Allegany.....	1,000	18	70.2	- 1.3	94	31	45	5	35	1.90	- 1.51	0.70	0	5	-	-	-	w.	Prof. O. H. Bruce.
Westminster.....	Carroll.....	860	19	70.4	- 1.0	90	18	45	28	30	3.06	- 2.15	1.00	0	10	22	7	2	w.	Prof. Geo. F. Morelock.
Woodstock.....	Baltimore.....	392	38	73.1	+ 0.8	90	19	54	47	23	3.88	- 0.26	0.67	0	12	17	10	4	sw.	Rev. James F. Dawson, S. J.
Delaware.																				
Delaware City.....	New Castle.....	10	10	73.0	-	91	13	52	29	30	2.14	-	0.96	0	5	27	1	3	s.	H. Morton Price.
Dover.....	Kent.....	40	24	73.6	- 1.2	95	13	49	30	29	1.32	- 2.78	1.13	0	5	14	11	6	w.	W. C. Justing.
Milford.....	do.....	20	28	75.2	+ 0.4	95	13	52	28	27	2.70	- 0.84	1.57	0	9	15	13	3	nw.	Chas. J. Holzmueller.
Millsboro.....	Sussex.....	20	20	73.6	- 0.9	97	19	50	57	35	1.22	- 3.86	0.40	0	8	23	3	5	sw.	Rev. L. W. Wells.
Seaford.....	do.....	40	21	73.2	- 1.3	93	19	50	28	26	1.59	- 2.43	0.61	0	5	22 ^a	6 ^a	2 ^a	nw.	E. B. Brown.
Wilmington.....	New Castle.....	86	1	74.4	-	92	13	54	28	24	2.24	-	0.60	0	9	19	11	1	nw.	Alexander J. Taylor.
District of Columbia.																				
Washington.....	Dist. of Columbia ..	112	42	73.4	- 1.1	92	18 ^f	53	6	27	1.50	- 2.90	0.55	0	10	10	14	7	s.	U. S. Weather Bureau.
Virginia.																				
Culpeper.....	Culpeper.....	450	4	72.0	-	92	19	48	5	31	1.52	-	0.61	0	7	8	23	0	s.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	33	70.2	- 2.0	96	31	40	37	39	1.75	- 2.29	0.68	0	8	8	10	13	. .	Rev. L. J. Heatwole.
Eastville.....	Northampton.....	15	2	75.4	- 1.5	98	13 ^f	54	6	31	3.48	- 0.84	1.89	0	10	10	21	0	sw.	T. B. Robertson.
Fredericksburg.....	Spotsylvania.....	100	23	73.6	- 1.9	94	19	52	47	30	0.91	- 3.71	0.56	0	5	15	14	2	nw.	S. G. Ilowison.
Lincoln.....	Loudoun.....	500	11	71.0	-	95	21	46	5	36	2.11	-	0.95	0	7	9	21	1	nw.	Dr. Ged. Roberts.
Mount Weather.....	do.....	1,726	8	67.8	- 1.6	84	18	50	28	18	4.54	+ 0.92	2.81	0	10	6	16	9	w.	U. S. Weather Bureau.
Oxonianock.....	Accomac.....	20	1	74.8	-	95	19	50	51	29	1.38	-	0.69	0	5	20	8	3	s.	S. F. Rogers.
Quantico.....	Prince William.....	16	15	73.2	-	96	19	51	4	32	0.80	-	0.63	0	4	23	8	0	ne.	Rich., Fdksb. & Pot. R. R.
Staunton.....	Augusta.....	1,380	20	72.2	- 0.9	94	18	44	4	32	0.91	- 2.95	0.50	0	7	5	20	6	sw.	Ernest Nothnagel.
Warsaw.....	Richmond.....	160	20	74.8	- 0.7	97	19	51	5	31	2.42	- 2.12	0.80	0	8	1	28	2	s.	C. H. Constable.
Winchester.....	Frederick.....	717	1	72.7	-	91	18 ^f	50	5	27	2.00	-	0.80	0	4	4	19	8	w.	Bentley Kern.
Woodstock.....	Shenandoah.....	927	16	72.6	- 1.1	96	18	46	5	38	1.86	- 1.98	1.14	0	5	9	19	3	w.	Mrs. A. G. Artz.

^a, ^b, ^c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

**Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for August, 1912. District No. 1, North Atlantic States.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Maine.</i>																																		
Ashland.....	St. John.....	Coast.....	1.70	.35																														3.93
Bar Harbor.....	Kennebec.....	Coast.....	1.68	.59				*	.03	*	*	1.79	1.24																				6.55	
Cambridge.....	Cornish.....	Saco.....	.64	T.	.86	T.	.08				.09	T.	.30	.10																		3.54		
Danforth.....	Penobscot.....	Coast.....	1.10	.10	.12	.35				.15	.10	.25	.45	.20	T.																	4.24		
Eastport.....	Kennebec.....	Coast.....	.55	.13	T.				.10	.01	T.	.32	.21	.35																		3.76		
Eustis.....	do.....	do.....	.90	.33	1.36	.01	.08		.32	.02	.12	.01	.18	.69	.15	.30	.03															6.05		
Fairfield.....	Farmington.....	do.....	1.31	1.20	T.	.57	.01	T.	.03	T.	.08	.09	.12	.08	.63	.03	.03	.02														5.27		
Gardiner.....	Greenville.....	do.....	1.15	.13	.38	T.					.10	T.		.03	.24	.19																2.99		
Houlton.....	St. John.....	do.....	.82	.10	.22	T.	.10					.10	.08	.32	.67	.12	.07	.19														5.38		
Howe Brook.....	Penobscot.....	do.....	.80	.40								.70	.50		.90		1.40	2.00														8.40		
Lewiston.....	Andr'sc'g'in.....	do.....	.75	.78																													2.96	
Madison.....	Kennebec.....	do.....	2.18	.79																													6.96	
Millinocket.....	Penobscot.....	do.....	1.26	.06	.18																												6.94	
North Bridgton.....	Saco.....	do.....	.56	.90																													3.55	
Oquossoc.....	Andr'sc'g'in.....	do.....	.45	.17	.47	.32																											4.69	
Orono.....	Penobscot.....	Patten.....	1.64	.33																													11.28	
Portland.....	Coast.....	do.....	.63	.02																													2.26	
Presque Isle.....	St. John.....	Rumford Falls.....	do.....	.72	T.	1.07																											4.89	
The Forks.....	Kennebec.....	do.....	.55	.35	.50	T.	T.	T.	*	*	*	*	*	*	1.79																	3.67		
Winslow.....	do.....	do.....	1.30	.03	.68																											4.80		
<i>New Hampshire.</i>																																		
Alstead Center.....	Connecticut.....	Benton.....	.33	.83	T.	.07	T.																										8.19	
Bethlehem.....	Merrimack.....	do.....	.95	.12	1.00																												5.26	
Brookline.....	Concord.....	do.....	.91	.06	1.19	.09	.05																										5.92	
Durham.....	do.....	do.....	.30	.28																													2.73	
Franklin.....	do.....	do.....	.82	.22																													3.39	
Grafton.....	do.....	do.....	.40																														2.95	
Hanover.....	Connecticut.....	Keene.....	.78	.03	.53																												3.52	
Nashua.....	Merrimack.....	do.....	.41	.01	.42																												4.10	
Newton.....	do.....	do.....	.22	.21																													2.34	
Plymouth.....	do.....	do.....	.97	.84	T.																												2.51	
<i>Vermont.</i>																																		
Bloomfield.....	Connecticut.....	Cavendish.....	.37	.11	.56	.16	.02	T.	.13	.01	.06	.11	.20	.28																		5.16		
Chelsea.....	do.....	do.....	.71	.41																													3.62	
Manchester.....	Hudson.....	do.....	.79																														3.84	
Somerset.....	Connecticut.....	do.....	.23	.42	T.																												3.79	
St. Johnsbury.....	do.....	do.....	.30	.08	T.	.38	T.	.02	T.	.03	.25	1.18	.01																		4.18			
Vernon.....	do.....	do.....	.24	.41		.01																										4.80		
Woodstock.....	do.....	do.....	.56	.36	.21																											4.05		
<i>Massachusetts.</i>																																		
Amherst.....	Connecticut.....	Ashland.....	.02	.13																														2.64
Bakers Bridge.....	Merrimack.....	do.....	.37	.10																														2.55
Bedford.....	do.....	do.....	.39	.11																													2.19	
Bliss Hill.....	Coast.....	do.....	.10	.34	T.																												3.85	
Boston.....	do.....	do.....	.08	T.	.12																												1.94	
Chestnut Hill.....	do.....	do.....	.14																														2.24	
Clinton.....	Merrimack.....	do.....	.06	.26																													3.63	
Concord.....	do.....	do.....	.87	.16																													3.37	
Fall River.....	Coast.....	do.....	.95	1.03	.27	.05																										4.60		
Fitchburg.....	Merrimack.....	do.....	.09	.30																													2.86	
Framingham.....	do.....	do.....	.12																														2.92	
Haverhill.....	do.....	do.....	.31	.22																													2.28	
Hingham.....	Coast.....	do.....	.36	.26																													2.51	
Hyannis.....	do.....	do.....	1.19	.32	.60																												5.45	
Jefferson.....	Merrimack.....	do.....	.27																														2.48	
Lake Cochituate.....	do.....	do.....	.09																														2.26	
Lawrence.....	do.....	do.....	.57	.15	T.	</																												

TABLE 2.—*Daily precipitation for August, 1913. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for August, 1912. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for August, 1912. District No. 1—Continued.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
<i>New Jersey—Contd.</i>																																		
Somerville.....	Coast	T.	.22																															3.31
South Orange.....	do	T.	.18																														1.90	
Sussex.....	Hudson		.39																														4.24	
Trenton.....	Delaware	.32	.18																														1.71	
Tuckerton.....	Coast																																2.55	
Vineland.....	do																																1.19	
Woodbine.....	do	.24	.02																														2.94	
<i>West Virginia.</i>																																		
Bayard.....	Potomac	.52	.21	.09																													4.43	
Burlington.....	do	.10																															0.25	
Harpers Ferry II.....	T.	T.																															4.27	
Lost City.....	do	.11																															1.49	
Martinsburg.....	do																																2.10	
Upper Tract.....	do	T.																															0.68	
<i>Maryland.</i>																																		
Annapolis.....	Coast	T.																															1.02	
Baltimore.....	do	T.																															3.25	
Cambridge.....	do																																2.31	
Cheltenham.....	do	.07																															1.41	
Chestertown.....	do	.20	.10	.04																													1.87	
Chewsville.....	Potomac	.08	.09	.13																													3.35	
Clear Spring.....	do	.12	.23	.13																													4.60	
Coleman.....	do	.25																															0.29	
College Park.....	do	.03	.10																														1.15	
Cumberland.....	do	.01																															1.35	
Darlington.....	Coast	.21	.06																														2.88	
Denton.....	do	.11	.08																														1.80	
Easton.....	do	.14	.04	.05																													1.86	
Fallston.....	do	.34	.17																														2.81	
Frederick.....	Potomac	.06	.03	.33																													3.32	
Frostburg.....	do	.02																															2.43	
Great Falls.....	do	.05	.02																														1.14	
Green Spring Furnace.....	do	.21	.14																														2.76	
Kedysville.....	do	.28																															4.44	
Lake Montebello.....	Coast	.13	T.																														4.47	
Laurel.....	do																																2.58	
Leonardtown.....	do	.21	.18																														2.12	
Monrovia.....	Potomac	.53	T.																														3.49	
Pocomoke City.....	Coast	1.71		.19																													4.21	
Porto Bello.....	do																																	
Princess Anne.....	do	1.26	.11	.05																													3.63	
Rockville.....	Potomac	.08	.08																														1.70	
Salisbury.....	Coast	2.00																															3.09	
Solomons.....	do	.03	.03	T.																													1.54	
State Sanatorium.....	Potomac	.04	T.																														6.26	
Sudlersville.....	Coast	T.																															1.67	
Takoma Park.....	do	.05																															1.31	
Taneytown.....	do	.04	.10	.08																													3.52	
Van Bibber.....	do	1.00	.31																														3.17	
Westernport.....	Potomac	.13	.06																														1.90	
Westminster.....	Coast	.50	T.	.60	T.																												3.06	
Woodstock.....	do																																3.88	
<i>Delaware.</i>																																		
Delaware City.....	do	.96	T.																														2.14	
Dover.....	do	.02																															1.32	
Milford.....	do	.24	.05	.02																													2.70	
Millsboro.....	do	.18	.07	.03																													1.22	
Seaford.....	do	.61	T.																														1.59	
Wilmington.....	do	.60	.07																														2.24	
<i>District of Columbia.</i>																																		
Washington.....	do	.04																															1.50	
<i>Virginia.</i>																																		
Culpeper.....	Rappahannock	.04																															1.52	
Dale Enterprise.....	Shenandoah	.68	.03																														1.75	
Eastville.....	Coast	.16	.74																														3.48	
Fredericksburg.....	Rappahannock	.03	T.																													T. 0.91		
Lincoln.....	Potomac	.05																														2.11		
Mount Weather.....	do	.09																														4.54		
Onancock.....	Coast	.43																														1.38		
Quantico.....	Potomac																															0.80		
Staunton.....	Shenandoah																															T. 0.91		
Warsaw.....	Rappahannock	.52																														2.42		
Winchester.....	Potomac	.25																																

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1912. District No. 1, North Atlantic States.

Date.	Maine.												Concord, N. H.		Massachusetts.								Provi- dence, R. I.		Connecticut.				
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.		Rumford Falls.				Amherst.		Boston.		Middle- boro.		Nantucket.					Cream Hill.		Hartford.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1....	57	53	58	53	69	57	65	57	63	56	71	55	71	60	73	54	74	61	72	60	73	54	75	60	73	54	75	60	
2....	72	56	67	51	74	49	71	52	72	52	75	48	76	61	76	54	72	61	77	59	72	58	75	55	72	58	75	55	
3....	60	52	59	42	73	45	64	55	58	50	68	54	73	60	73	56	70	62	72	57	68	50	70	57	68	50	70	57	
4....	73	53	66	52	71	51	71	56	70	55	71	55	76	57	75	49	72	58	73	54	68	46	73	53	68	46	73	53	
5....	68	50	66	45	72	47	68	54	68	50	73	47	76	57	75	46	73	58	73	55	69	49	73	53	69	49	73	53	
6....	72	52	68	44	74	49	70	53	72	48	73	47	75	58	77	46	74	60	76	55	73	50	77	54	72	52	77	55	
7....	62	52	70	47	75	50	73	59	72	48	79	49	72	60	78	47	76	60	78	59	71	52	77	55	70	52	79	60	
8....	63	49	72	45	76	47	62	56	68	52	79	57	81	66	78	54	75	60	75	57	74	55	79	60	72	56	79	60	
9....	63	54	65	54	73	56	69	60	73	59	76	59	80	63	78	50	72	59	74	60	72	56	79	62	72	56	79	62	
10....	62	54	65	55	72	52	71	60	74	60	79	63	82	66	79	60	77	65	78	66	76	59	80	59	76	59	80	67	
11....	67	56	68	64	73	64	70	62	75	68	82	69	80	72	74	70	74	67	76	69	83	62	85	68	83	62	85	68	
12....	64	58	74	65	75	65	72	62	78	66	84	65	87	71	83	70	76	68	77	70	82	61	86	70	82	61	86	70	
13....	64	55	79	60	82	64	82	62	82	62	86	62	88	72	85	65	80	67	86	70	84	62	86	67	84	62	86	67	
14....	62	56	63	56	84	57	79	61	83	60	86	61	87	72	84	68	78	67	85	69	86	64	89	70	86	64	89	70	
15....	72	59	70	60	84	60	81	61	87	62	92	59	87	65	86	64	80	67	87	64	83	60	87	64	83	60	87	66	
16....	66	53	63	48	76	47	70	55	67	50	70	51	69	58	74	55	69	57	73	55	76	59	74	57	76	59	74	57	
17....	68	49	64	40	77	39	70	50	68	45	70	43	75	54	73	41	72	58	73	50	75	58	75	50	75	58	75	50	
18....	71	51	70	43	72	41	60	51	65	44	58	48	63	58	64	48	68	59	64	59	65	55	68	59	65	55	68	59	
19....	66	53	72	51	73	53	72	54	74	56	76	57	70	56	73	56	68	59	72	57	68	58	77	58	77	58	77	58	
20....	65	53	72	45	75	48	64	55	73	52	76	58	68	63	73	61	65	58	73	62	71	57	76	64	71	57	76	64	
21....	66	50	70	45	74	44	69	50	76	48	76	52	73	62	73	59	69	58	72	63	75	55	74	60	75	55	74	60	
22....	62	55	76	50	74	55	71	59	78	56	81	58	84	65	81	58	78	65	83	61	84	58	84	61	84	58	84	61	
23....	60	54	68	58	77	59	71	60	74	58	78	59	84	65	82	66	76	64	84	63	84	55	82	62	84	55	82	62	
24....	66	54	60	53	74	54	70	57	65	51	71	56	76	62	73	55	72	62	74	60	73	54	75	58	73	54	75	58	
25....	74	52	72	47	78	48	88	60	78	53	87	57	90	66	83	59	75	65	87	65	84	50	88	65	84	50	88	65	
Mns..	65.3	52.4	67.2	49.8	74.2	50.7	70.1	55.6	70.7	53.5	74.8	54.2	76.8	61.1	73.6	55.1	72.8	61.3	76.0	59.5	74.2	54.3	77.4	59.1	74.2	54.3	77.4	59.1	

Date.	New Haven, Conn.												Pennsylvania.												Atlantic City, N. J.					
	Addison.		Albany.		Bingham- ton.		Indian Lake.		Little Falls.		New York.		Everett.		Harris- burg.		Philadel- phia.		Scranton.		State Col- lege.		Wellsboro.							
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	77	60	75	45	74	57	68	47	67	34	70	45	78	61	72	50	74	61	79	62	72	55	71	50	73	48	78	64		
2....	78	57	75	48	76	52	73	52	70	38	75	47	77	61	70	47	74	57	79	64	77	51	71	50	72	44	76	62		
3....	74	57	69	49	71	58	64	53	69	49	63	53	73	57	68	52	71	55	74	59	66	56	66	48	74	59	74	59		
4....	74	55	69	46	72	56	65	47	61	45	67	56	75	57	68	44	72	53	76	58	69	51	66	48	70	58	71	58		
5....	74	54	72	44	76	52	69	46	70	40	74	58	72	52	74	47	74	54	77	59	73	47	72	39	75	58	73	58		
6....	76	55	78	44	78	52	74	44	67	40	75	49	75	59	73	45	75	53	79	62	76	47	73	46	75	58	73	58		
7....	79	56	80	52	77	54	77	49	75	42	74	51	77	61	78	51	78	60	72	57	78	55	79	42	75	58	75	64		
8....	77	59	77	64	79	61	76	59	71	50	76	58	73	64	77	54	78	60	63	77	58	79	61	77	57	77	68	78	68	
9....	77	64	77	63	79	67	71	66	70	57	73	63	74	67	78	65	75	68	81	74	67	77	60	74	59	78	71	78	71	
10....	78	69	80	68	79	69	73	64	72	58	72	62	76	68	81	66	82	69	82	70	78	69	80	61	80	64	78	72	78	72
11....	81	68	80	62	85	68	83	63	80	59	84	63	82	68	82	66	84	67	88	72	83	66	80	60	78	56	80	62	78	56
12....	86	70	79	61	84	69	80	64	75	60	78	64	83	70	80	61	81	67	86	72	81	65	78	60	86	57	82	70	86	57
13....	84	67	88	58	87	68	85	61	82	50	87	59	86	70	85	61	84	69	87	72	86	63	84	62	84	57	82	70	84	62
14....	89	69	88	64	86	70	84	61	80	57	86	67	87	71	83	65	84													

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1912. District No. 1—Continued.

Date.	New Jersey.								West Virginia.		Maryland.								Millsboro, Del.		Washing- ton, D. C.		Virginia.									
	Bridgeton.		Hights- town.		Phillips- burg.		Sussex.		Martins- burg. §§		Baltimore.		Darling- ton.		Frederick.		Western- port.						Fredericks- burg.		Staunton. §§		Wood- stock.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					Max.	Min.	Max.	Min.						
1....	81	62	82	60	79	58	78	57	77	59	79	59	80	59	76	54	79	62	78	62	77	61	77	55	77	56						
2....	83	56	83	51	80	51	79	46	81	53	80	61	76	55	81	54	74	50	79	58	80	59	80	58	80	50						
3....	75	56	77	54	72	54	72	53	71	55	72	60	72	62	73	56	74	49	76	58	70	59	74	57	64	53						
4....	78	53	78	49	76	50	74	48	78	49	74	58	74	53	76	49	73	47	75	58	73	54	73	52	74	48						
5....	80	51	79	46	77	48	75	44	79	47	78	57	76	52	78	47	75	45	77	56	76	54	74	52	76	47						
6....	81	53	81	49	79	49	79	45	78	49	77	58	76	50	79	50	72	48	79	55	76	53	76	52	76	50						
7....	81	54	81	52	80	53	78	50	83	54	79	62	77	51	83	51	80	54	88	58	80	54	83	53	84	56						
8....	82	58	83	51	83	55	78	51	84	56	79	65	80	58	82	56	77	59	83	59	83	56	79	56	83	56						
9....	84	65	81	67	78	65	76	63	87	62	79	72	76	67	83	69	86	63	78	68	81	72	82	65	86	66						
10....	86	70	85	67	78	68	77	66	87	67	83	70	83	69	88	71	85	60	81	72	86	69	85	71	88	65						
11....	93	68	92	67	88	66	85	63	90	60	89	68	84	62	89	62	87	58	82	72	89	65	88	60	87	60						
12....	91	67	90	63	84	64	85	55	85	67	86	72	83	65	87	65	89	60	85	74	87	71	87	66	86	62						
13....	95	66	94	64	88	64	87	61	86	65	88	71	88	64	88	65	88	63	91	69	89	71	91	65	86	62						
14....	93	68	93	67	87	67	90	65	94	68	87	74	86	67	89	67	86	66	88	70	91	67	89	68	86	66						
15....	90	69	88	61	86	63	82	57	89	64	85	73	88	69	86	68	86	62	83	65	83	70	86	69	90	65						
16....	85	62	82	53	79	56	77	50	84	60	82	68	80	60	83	61	85	57	86	63	84	66	84	62	87	59						
17....	80	62	79	52	79	53	76	45	80	59	80	64	78	59	80	58	75	54	80	63	83	68	81	55	82	56						
18....	90	65	89	64	87	63	85	61	92	60	89	60	92	67	92	61	88	62	92	73	91	71	94	70	96	66						
19....	92	71	89	67	86	66	79	64	92	68	89	72	95	70	92	70	88	71	84	74	92	70	94	67	92	66						
20....	86	71	84	68	82	64	81	65	85	69	85	74	81	67	87	70	84	68	84	71	85	71	88	69	88	67						
21....	90	65	84	59	83	61	79	57	89	68	89	73	85	64	89	68	80	64	86	70	90	68	91	67	82	64						
22....	90	68	88	62	87	63	83	55	90	65	89	72	86	65	90	67	88	60	88	67	89	73	89	69	87	62						
23....	88	67	87	67	77	60	77	64	80	66	82	70	78	64	82	65	78	62	82	67	81	71	86	68	82	63						
24....	87	58	83	54	80	56	78	54	87	58	85	65	82	57	86	57	88	53	82	60	87	60	88	54	87	55						
25....	93	66	90	62	88	60	88	61	92	59	89	68	97	64	91	61	91	58	88	64	91	67	91	61	93	60						
26....	91	67	92	63	89	64	89	65	89	63	89	72	88	64	88	65	89	61	90	67	90	68	91	64	93	61						
27....	85	68	83	63	75	55	81	61	82	66	82	65	78	65	80	66	78	66	85	70	82	60	87	66	88	65						
28....	75	47	72	44	70	47	71	45	79	52	75	57	70	48	75	49	73	47	76	63	74	53	79	54	79	50						
29....	78	62	78	55	76	54	73	55	72	52	77	64	75	59	73	60	77	60	75	52	77	61	87	63	88	65						
30....	72	49	73	45	73	52	67	48	79	52	76	59	73	49	78	51	82	55	75	56	77	59	77	64	83	59						
31....	72	51	66	42	61	45	60	40	80	55	72	62	68	56	78	61	94	60	71	58	78	63	83	62	90	63						
Mns.	84.7	61.8	83.4	57.7	80.2	57.9	78.6	55.3 ^b	83.9	59.6	82.2	66.5	80.0	60.5	83.4	60.8	82.5	57.9	82.2	63.9	82.9	64.0	84.4	62.9	84.1	60.4	85.8	59.4				

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.^{§§} Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.